IAP12 Rec'd POWATO \$3 APR 2006

FORM PTO-13	190 (Modified) U.S. PATENT AND TRADEMAR MITTAL LETTER TO TH	ATTORNEY'S DOCKET NUMBER 289684US40PCT						
DESIG	NATED/ELECTED OFFI	U.S. APPLICATION NO. (If known, see 37 CFR 1.5)						
CONCERNING A SODIVISSION CINDER OF CITAL TO THE CONCERNING A SODIVIS CINDER OF CITAL TO THE CONCERNING A SODIVE CINDER OF CITAL TO THE CONCERNING CINDER OF CITAL TO THE CONCERNING CINDER OF CITAL TO THE CONCERNING CINDER OF C								
	TIONAL APPLICATION NO. P04/16475	PRIORITY DATE CLAIMED 29 October 2003 earliest						
TITLE OF	INVENTION							
HEAL	HEAT EXCHANGER							
APPLICAN	NT(S) FOR DO/EO/US							
Naohis	a HIGASHIYAMA	s Designated/Elected Office (DO/EO/US)	the following items and other information:					
1.	This is a FIRST submission of items	concerning a submission under 35 U.S.C.	371.					
3.	 This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), 							
	(9) and (24) indicated below.							
_	The US has been elected (Article 31							
5.	A copy of the International Application		utional Bureau).					
-	————	ed only if not communicated by the Interna	adoral Buroday.					
		by the International Bureau. Dication was filed in the United States Rec	peiving Office (RO/US).					
		ne International Application as filed (35 U.						
6. 📙	User trade	te international y phocaes, as were (see	, , , ,					
	a. is attached hereto.	nitted under 35 U.S.C. 154(d)(4).						
			19 (35 U.S.C. 371(c)(3))					
7.	 Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. are attached hereto (required only if not communicated by the International Bureau). 							
	Land and a second by the International Bureau							
	The state of the s							
8	The state of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
9.	\sim 1. Leading of the inventor(c) (25 LIS C 371(c)(4))							
9.	a. If the declaration is in a language other than the English language, it is accompanied by an English translation. The translation is accurate (37 CFR 1.69)							
10.	An English language translation of 371 (c)(5)).	the annexes of the International Prelimina	ry Examination Report under PCT Article 36 (35 U.S.C.					
11.		ary Examination Report (PCT/IPEA/409).						
12. A copy of the International Search Report (PCT/ISA/210).								
Items 13 to 23 below concern document(s) or information included:								
·13.	An Information Disclosure Stateme		f Relevancy d. List of Related Cases.					
		References (1) c. Statement of						
14. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.								
15. A FIRST preliminary amendment.								
16.								
17.								
18.								
	19. A power of attorney and/or change of address letter. 20. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.							
	Use All Advanced International Application under 35 U.S.C. 154(d)(4).							
	The second state of the International Application under 35 U.S.C. 154(d)(4).							
23.	Marian of Dringh (2)/DCT/IR/308							
20.	Calci nomo di internazioni ricado	Page 1 of 2	PCT/US1/REV06					

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U.S. APPLICATION NO. (Ir known, see 3/CFR 1.5)					ATTORNEY'S DOCKET NUMBER			
1	9/577	33U_	PCT/JP04/1	6475		289684US40PC		
The following fees are submitted:						CALCULATIONS	PTO USE ONLY	
24. Basic national fee\$300						\$300.00		
25. Exami	nation fee							
If the written opini	ion prepared by I	SA/US or the inte	ernational preliminary provisions of PCT A	examination reprincies 33(1)-(4)	oort \$0			
prepared by IF All other situation	S				\$200	\$200.00		
26. Search								
If the written onin	ion of the ISA/LIS	or the Internation	nal preliminary exam	ination report	e o			
prepared by IP	PEA/US indicates	all claims satisfy	provisions of PCT A the international app	rticle 33(1)-(4) lication to the U	SPTO			
oc an Internati	onal Searching A	uthority			\$100			
International Sea	rch Report prepa	red by an ISA oth	her than the US and p	provided to the C	лпсе \$400			
All other situation	S				\$500	¢400.00		
·	07.04.07.440					\$400.00		
1	OF 24, 25 AND		St. 11.	O sharts (sushing		\$900.00		
Additional 1	fee for specificati	on and drawings er program listing	filed in paper over 10 filed in an electronic	no sneets (excluded). The f	ee is			
\$250 for ea	ch additional 50	sheets of paper of	or fraction thereof.					
Total Sheets	Extra Sheets		mber of each additional 50 or con thereof (round up to a whole		•			
- 100 =	/ 50 =	nacuon alcreo	Come up to a mior		50.00	\$		
1		rnishing any of th	ne search fee, examir	nation fee, or the	oath			
or declarat	ion after the date	of commenceme	ent of the national sta	ge (37 CFR 1.49	92(h)).	\$		
CLAIMS	NUMBE	ER FILED 1	NUMBER EXTRA	RATE				
Total claims	41	- 20 =	21	x \$	50.00	\$1,050.00		
Independent clair	ms 3	- 3=	0	x \$2	00.00	\$0.00		
MULTIPLE DEPI	ENDENT CLAIM	S (if applicable)		+ \$3	860.00	\$0.00		
		TOTA	L OF ABOVE C	ALCULATIO	NS =	\$1,950.00		
Applicant of	laims small entit	y status. See 37	CFR 1.27. Fees abo	ve are reduced l	by 1/2.			
				SUBTOTA		\$1,950.00		
Processing	r fee of \$130.00	for furnishing the	English translation la	iter than 30 mon	ths	—		
from the ex	arliest claimed pr	iority date (37 CF	FR 1.492(i)).		+	\$		
				IATIONAL F		\$1,950.00		
Fee for red	cording the enclo	sed assignment ((37 CFR 1.21(h)). The	assignment mus	st be	\$		
			(37 CFR 3.28, 3.31).		enty + +	\$		
Petition fe	e of \$1,500.00 to	r Petition to Revi	ve (37 CFR 1.137 (b)	S ENCLOS		\$1,950.00		
TOTAL FEES ENCLOSED =					Amount to be			
		<u></u>				refunded:	\$	
						Amount to be charged:	 	
a. A check in the amount of \$ to cover the above fees is enclosed.								
b. Please charge my Deposit Account No. <u>15-0030</u> in the amount of \$ to cover the above fees.								
<u> </u>								
c. The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.								
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.								
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be								
filed and granted to restore the International Application to pending status.							ρ	
SEND ALL CORRESPONDCE TO:						luwd	Jackon	
CUSTOMER NUMBER SIGNATURE					E			
22850 Richard D. H					<u>D. K</u>	<u>elly</u> Surinder S	achar	
Tel. (703) 413-3000					Registration No. 34,423			
Fax. (703) 4	Fax. (703) 413-2220 <u>27,757</u>					9		
				REGISTRAT	TION N	JMBER		

Page 2 of 2

PCT/US1/REV06

IAP12 Rec'd PCT/PTO 28 APR 2006

289684US40PCT Docket No.

IN RE APPLICATION OF: Naohisa HIGASHIYAMA

SERIAL NO: New U.S. PCT Application Based on PCT/JP04/16475

FILED:

Herewith

FOR:

HEAT EXCHANGER

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

Transmitted herewith is an amendment in the above-identified application.

- No additional fee is required
- ☐ Small entity status of this application under 37 C.F.R. §1.9 and §1.27 is claimed.
- Additional documents filed herewith:

PCT Transmittal Letter/Application Data Sheet/Notice of Priority (2)/Declaration Preliminary Amendment/PCT/IB/304/PCT/IB/308Information Disclosure Statement

PTO-1449/International Search Report/Reference Cited (1)

International Preliminary Report on Patentability

Credit Card Payment Form for \$1950.00

The Fee has been calculated as shown below:

The Fee has been calcul CLAIMS	CLAIMS REMAINING		HIGHEST NUMBER PREVIOUSLY PAID	NO. EXTRA CLAIMS		RATE		CALCULATIONS
) mrig	41	0	x	\$50	=	\$0.00
TOTAL	41	MINUS	41	0	x	\$200	=	\$0.00
INDEPENDENT	3	MINUS	3		┼			\$0.00
INDELETE:		☐ MULTIPLE DEPENDENT CLAIMS			+ \$3	\$360	J =	
	TOTAL OF ABOVE CALCULATIONS					\$0.00		
						\$0.00		
	☐ Reduction by 50% for filing by Small Entity					60.00		
				TO	TAL	\$0.00		

	A check in the amou	nt of <u>\$0.00</u> is attached.
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- ☐ Credit card payment form is attached to cover the fees in the amount of \$0.00
- Please charge any additional Fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.
- If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time may be charged to Deposit Account No. 15-0030. A duplicate copy of this sheet is enclosed.

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Richard D. Kelly

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